

APPENDIX A

(Amendment to Cross-Reference to Related Applications Section)

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a divisional of United States patent application Serial No. 08/904,371 filed August 1, 1997, now abandoned, which claims priority to United States provisional patent application Serial No. 60/023,034, filed August 2, 1996, now expired.

(Provisional Application Serial No.) _____ (Filing Date)

60/023034 _____ 8/2/96
This is a Divisional of Parent Application Serial No. _____ Filing Date
08/904,371 _____ 8/1/97

(Amendments to paragraph on page 7, lines 24-28)

Fluorescence Polarization is fully described and defined in U.S. Patent [Serial No. 08/353,079] 5,786,139 issued to Burke et al. and incorporated herein by reference.

Fluorescence 25 anisotropy can also be used to measure the binding. Like polarization values, it is calculated from the emission intensity in the horizontal and vertical planes. It can be substituted for polarization with a standard mathematical correction.

(Amendments to paragraph spanning page 7, line 30 – page 8, line 14)

The method and kit include the use of a light-emitting compound which is used as a label. The present invention utilizes fluorescence polarization techniques to quantify fluorescence light-emitting characteristics. Fluorescence-emitting compounds include any compound having appropriate fluorescence characteristics for use with the invention. One can determine whether or not a particular fluorescence emitting compound is suitable for the present invention by comparing the candidate compound with those compounds illustrated in the Examples. If the candidate compound performs a required

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function such that a successful detection and quantification can be obtained, similar to the compounds used in this application, the compound is suitable for use with this invention. Potential fluorescence-emitting compounds for use in the invention include, for example, the fluorescence-emitting hormones: THC-ester, THC-ketone, and THC-amide. In the preferred embodiments the THC-ester renamed ES1 for the purposes of this application, is used as the fluormone. Several appropriate estrogen receptor ligands which act as 10 fluormones are described in Hwang et. al. Biochemistry 31:11536-45, 1992, incorporated herein by reference. Other fluorescence-emitting labels useable with this method and the process of their attachment to nucleic acids is fully described and defined in U.S. Patent ~~{Serial No. 08/353,079} 5,786,139~~ issued to Burke et al. and incorporated herein by reference.

(Amendments to page 17, lines 27-29)

Black, round bottom microtiter plates for use in the multiwell fluorescence polarization instrument (Dynex ~~WHAT LOCATION?~~ Technologies, Inc., Chantilly, VA) or disposable 6 x 50 mm borosilicate test tubes, certified for use with the Analyzer.

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